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Status: **Active**

Product Quick Links

Specifications

Product Options

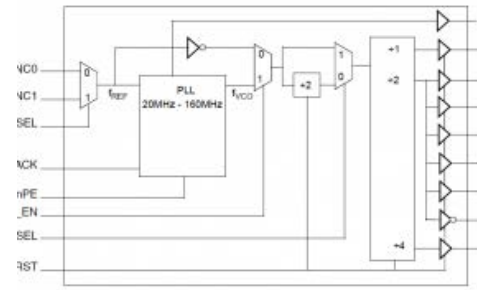
Technical Support

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870919I

LVC MOS Clock Generator

The 870919I is an LVC MOS clock generator that uses an internal phase lock loop (PLL) for frequency multiplication and to lock the low-skew outputs to the selected reference clock. The device offers eight outputs. The PLL loop filter is completely internal and does not require external components. Several output configurations of the PLL feedback and a divide-by-2 (controlled by FREQ_SEL) allow applications to optimize frequency generation over a wide range of input reference frequencies. The PLL can also be disabled by the PLL_EN control signal to allow for low frequency or DC testing. The LOCK output asserts to indicate when phase-lock has been achieved. The 870919I device is a member of the HiperClocks family of high performance clock solutions from IDT.



Features

- Two selectable single-ended input reference clocks
- Eight single-ended clock outputs
- Internal PLL does not require external loop filter components
- 5V tolerant inputs
- Maximum output frequency: 160MHz, (2XQ output)
- Maximum output frequency: 80MHz, (Q0:Q4 and nQ5 outputs)
- LVC MOS interface levels for all inputs and outputs
- PLL disable feature for low-frequency testing
- PLL lock output
- Selectable synchronization of output to input edge
- Output drive capability: ±24mA
- Output skew: 300ps (maximum), Q0:Q4
- Output skew: 500ps (maximum), all outputs
- Full 3.3V supply voltage
- Available in lead-free (RoHS 6) packages
- -40°C to 85°C ambient operating temperature

Product Specification

Core Voltage (V)	Input Freq (MHz)	Inputs (#)	Input Signal	Output Voltage (V)	Output Freq Range (MHz)	Output Type	Outputs (#)	C-C Jitter Max P-P (ps)
3.3	2.500000 - 100.000000	2	LVTTTL, LVC MOS	3.3	2.500000 - 160.000000	LVTTTL, LVC MOS	8	165

Product Options

Orderable Part ID	Part Status	Pkg. Code	Pkg. Type	Lead Count (#)	Temp. Grade	Pb (Lead) Free	Order
870919BRILF	Active	PCG28	QSOP	28	I	Yes	Check Inventory
870919BRILFT	Active	PCG28	QSOP	28	I	Yes	Check Inventory
870919BVILF	Active	PLG28	PLCC	28	I	Yes	Check Inventory

870919BVILFT	Active	PLG28	PLCC	28	I	Yes	Check Inventory
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Documents

There are no public documents available for this product. [Click here to request documentation.](#)

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